

(FILE 'HOME' ENTERED AT 13:46:03 ON 03 OCT 2001)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,  
USPATFULL, JAPIO' ENTERED AT 13:46:14 ON 03 OCT 2001

L1	16834 S CLOSTRIDIUM DIFFICILE
L2	3180 S TOXIN A AND L1
L3	2156 S TOXIN B AND L1
L4	1288 S L2 AND L3
L5	17 S L4 AND STREPTOCOCCUS PNEUMONIAE
L6	4 S L4 AND SHIGELLA FLEXNERI
L7	92 S L4 AND ESCHERICHIA COLI
L8	4 S L4 AND NEISSERIA MENINGITIDIS
L9	21 S L4 AND STAPHYLOCOCCUS AUREUS

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L5 17 S L4 AND STREPTOCOCCUS PNEUMONIAE  
L6 4 S L4 AND SHIGELLA FLEXNERI  
L7 92 S L4 AND ESCHERICHIA COLI  
L8 4 S L4 AND NEISSERIA MENINGITIDIS  
L9 21 S L4 AND STAPHYLOCOCCUS AUREUS  
L10 15 S L5 AND COMPOSITION  
L11 2 S L6 AND COMPOSITION  
L12 25 S L7 AND COMPOSITION  
L13 2 S L8 AND COMPOSITION  
L14 13 S L9 AND COMPOSITION  
L15 15 DUP REM L10 (0 DUPLICATES REMOVED)  
L16 2 DUP REM L11 (0 DUPLICATES REMOVED)  
L17 25 DUP REM L12 (0 DUPLICATES REMOVED)  
L18 2 DUP REM L13 (0 DUPLICATES REMOVED)  
L19 13 DUP REM L14 (0 DUPLICATES REMOVED)  
L20 2 S L10 AND L11 AND L12 AND L13 AND L14  
L21 1 S L20 AND PHARMACEUTICAL

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=> d 112 ibib 1-25

L12 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:742256 CAPLUS

DOCUMENT NUMBER: 133:295361

TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines

INVENTOR(S): Wilkins, Tracy D.; Lylerly, David M.; Moncrief, J.  
Scott; Pavliakova, Danka; Scheerson, Rachel; Robbins,  
John B.

PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-128686 P 19990409  
US 2000-186201 P 20000301

L12 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:117249 CAPLUS

DOCUMENT NUMBER: 132:161232

TITLE: Compounds, including saccharide compounds, for  
treatment of bacterial infections, and preparation  
thereof

INVENTOR(S): Bundle, David R.; Kitov, Pavel; Read, Randy J.; Ling,  
Hong; Armstrong, Glen

PATENT ASSIGNEE(S): The Governors of the University of Alberta, Can.

SOURCE: PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000008467	A2	20000217	WO 1999-CA725	19990806
WO 2000008467	A3	20000706		

W: AU, CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE

US 5962423 A 19991005 US 1998-130495 19980807

AU 9951450 A1 20000228 AU 1999-51450 19990806

EP 1102779 A2 20010530 EP 1999-936219 19990806

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

## PRIORITY APPLN. INFO.:

US 1998-130495 A 19980807  
US 1999-317290 A 19990524  
WO 1999-CA725 W 19990806

L12 ANSWER 3 OF 25 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 1998307575 EMBASE

TITLE: The complete DNA sequence and analysis of the large  
virulence plasmid of **Escherichia coli**  
O157:H7.

AUTHOR: Burland V.; Shao Y.; Perna N.T.; Plunkett G.; Sofia H.J.;  
Blattner F.R.

CORPORATE SOURCE: V. Burland, Laboratory of Genetics, University of  
Wisconsin, 445 Henry Mall, Madison, WI 53706, United  
States. [ecoli@genetics.wisc.edu](mailto:ecoli@genetics.wisc.edu)

SOURCE: Nucleic Acids Research, (15 Sep 1998) 26/18 (4196-4204).  
Refs: 75

ISSN: 0305-1048 CODEN: NARHAD

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 004 Microbiology

LANGUAGE: English

SUMMARY LANGUAGE: English

L12 ANSWER 4 OF 25 USPATFULL

ACCESSION NUMBER: 2001:157785 USPATFULL

TITLE: Ionic polymers as toxin-binding agents

INVENTOR(S): Fitzpatrick, Richard, Marblehead, MA, United States  
Huval, Chad Cori, Somerville, MA, United States  
Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United  
States  
Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Cambridge, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United  
States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 6290947	B1	20010918
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APPLICATION INFO.:	US 2000-597343		20000619 (9)
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RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-412474, filed  
on 5 Oct 1999, now abandoned Continuation of Ser. No.  
US 1997-934495, filed on 19 Sep 1997, now patented,  
Pat. No. US 6007803

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Dodson, Shelley A.

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith &amp; Reynolds, P.C.

NUMBER OF CLAIMS: 49

EXEMPLARY CLAIM: 1

LINE COUNT: 2094

L12 ANSWER 5 OF 25 USPATFULL

ACCESSION NUMBER: 2001:157784 USPATFULL

TITLE: Anionic polymers as toxin binders and antibacterial  
agents

INVENTOR(S): Kurtz, Caroline Isabelle Bacon, Sudbury, MA, United  
States

Fitzpatrick, Richard, Marblehead, MA, United States

PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United  
States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 6290946	B1	20010918
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APPLICATION INFO.: US 2000-569276 20000511 (9)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2000-541268, filed  
on 3 Apr 2000

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Fubara, Blessing	
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1935	

L12 ANSWER 6 OF 25 USPATFULL

ACCESSION NUMBER: 2001:139158 USPATFULL  
TITLE: Pneumococcal surface protein C (PspC), epitopic regions  
and strain selection thereof, and uses therefor  
INVENTOR(S): Briles, David E., Birmingham, AL, United States  
Hollingshead, Susan K., Birmingham, AL, United States  
Brooks-Walter, Alexis, Birmingham, AL, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001016200	A1	20010823
APPLICATION INFO.:	US 2000-748875	A1	20001226 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-298523, filed on 23 Apr 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-82728	19980423 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE, NEW YORK, NY, 10151	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	50 Drawing Page(s)	
LINE COUNT:	1911	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 25 USPATFULL

ACCESSION NUMBER: 2001:125541 USPATFULL  
TITLE: Anionic polymers as toxin binders  
INVENTOR(S): Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United  
States  
Fitzpatrick, Richard, Marblehead, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6270755	B1	20010807
APPLICATION INFO.:	US 2000-541268		20000403 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	

PRIMARY EXAMINER: Page, Thurman K.  
ASSISTANT EXAMINER: Fubara, Blessing  
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.  
NUMBER OF CLAIMS: 31  
EXEMPLARY CLAIM: 1  
LINE COUNT: 1310  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 8 OF 25 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL  
TITLE: Human respiratory syncytial virus peptides with  
antifusogenic and antiviral activities  
INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States  
PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		
LINE COUNT:	32166		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 9 OF 25 USPATFULL

ACCESSION NUMBER: 2001:8034 USPATFULL  
TITLE: 1-galactose derivatives having a carbon- or  
nitrogen-containing aglycon linkage  
INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6174867	B1	20010116
APPLICATION INFO.:	US 1998-75427		19980508 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lee, Howard C.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis LLP		
NUMBER OF CLAIMS:	64		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1979		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 10 OF 25 USPATFULL

ACCESSION NUMBER: 2000:88168 USPATFULL  
TITLE: Saccharide derivatives

INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6087339		20000711
APPLICATION INFO.:	US 1997-970751		19971114 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-751510, filed on 15 Nov 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-30794	19961114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Peselev, Elli	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP	
NUMBER OF CLAIMS:	71	
EXEMPLARY CLAIM:	19,20,21,34	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	3550	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 11 OF 25 USPATFULL

ACCESSION NUMBER: 2000:80408 USPATFULL  
TITLE: **Compositions** for the prevention and treatment of verotoxin-induced disease  
INVENTOR(S): Williams, James A., Lincoln, NE, United States  
Byrne, Lisa Marie, Stoughton, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Wisconsin, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6080400		20000627
APPLICATION INFO.:	US 1997-816977		19970313 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-410058, filed on 24 Mar 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Devi, S.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	5468		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 12 OF 25 USPATFULL

ACCESSION NUMBER: 1999:170197 USPATFULL  
TITLE: Ionic polymers as toxin binding agents  
INVENTOR(S): Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Boston, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6007803		19991228
APPLICATION INFO.:	US 1997-934495		19970919 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Clardy, S. Mark  
ASSISTANT EXAMINER: Shelborne, Kathryne E.  
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.  
NUMBER OF CLAIMS: 27  
EXEMPLARY CLAIM: 1  
LINE COUNT: 1832  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 13 OF 25 USPATFULL

ACCESSION NUMBER: 1999:128523 USPATFULL  
TITLE: 1-thiogalactose derivatives  
INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5968907		19991019
APPLICATION INFO.:	US 1997-970384		19971114 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-751510, filed on 15 Nov 1996, now patented, Pat. No. US 5780603		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-30794	19961114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Peselev, Elli	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP	
NUMBER OF CLAIMS:	87	
EXEMPLARY CLAIM:	66,80	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	4579	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 14 OF 25 USPATFULL

ACCESSION NUMBER: 1999:125055 USPATFULL  
TITLE: Combinatorial synthesis of carbohydrate libraries  
INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada  
PATENT ASSIGNEE(S): Sunsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5965719		19991012
APPLICATION INFO.:	US 1997-971222		19971114 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-751231, filed on 15 Nov 1996, now patented, Pat. No. US 5780603		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fonda, Kathleen K.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	3601		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 15 OF 25 USPATFULL

ACCESSION NUMBER: 1999:96348 USPATFULL  
TITLE: Treatment of cholera  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.)



corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5939397		19990817
	WO 9639191		19961212
APPLICATION INFO.:	US 1998-973630		19980325 (8)
	WO 1996-CA251		19960418
			19980325 PCT 371 date
			19980325 PCT 102(e) date
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jordan, Kimberly		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1237		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 16 OF 25 USPATFULL  
ACCESSION NUMBER: 1999:89130 USPATFULL  
TITLE: 1-galactose derivatives  
INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5932554		19990803
APPLICATION INFO.:	US 1997-970749		19971114 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-751510, filed on 15 Nov 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-30794	19961114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Peselev, Elli	
LEGAL REPRESENTATIVE:	Burns Doane Swecker & Mathis	
NUMBER OF CLAIMS:	62	
EXEMPLARY CLAIM:	14,27	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	2244	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 17 OF 25 USPATFULL  
ACCESSION NUMBER: 1999:75321 USPATFULL  
TITLE: Clostridium difficile toxins as mucosal adjuvants  
INVENTOR(S): Thomas, Jr., William D., Winchester, MA, United States  
Monath, Thomas P., Harvard, MA, United States  
Zhang, Zhenxi, Cambridge, MA, United States  
Torres-Lopez, Francisco Javier, San Clemente, Mexico  
Lei, Wende, Cambridge, MA, United States  
Lyerly, David M., Radford, VA, United States  
Moncrief, James S., Christiansburg, VA, United States  
PATENT ASSIGNEE(S): OraVax, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5919463		19990706
APPLICATION INFO.:	US 1995-543708		19951016 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-499384, filed on 7 Jul 1995, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Hutzell, Paula K.

ASSISTANT EXAMINER: Masood, Khalid

LEGAL REPRESENTATIVE: Clark & Elbing LLP

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT: 992

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 18 OF 25 USPATFULL

ACCESSION NUMBER: 1998:122384 USPATFULL

TITLE: Treatment of cholera

INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada

PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5817633		19981006
APPLICATION INFO.:	US 1996-678059		19960709 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-460893, filed on 5 Jun 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Peselev, Elli		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1160		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 19 OF 25 USPATFULL

ACCESSION NUMBER: 1998:118999 USPATFULL

TITLE: Recombinant clostridial toxin protein

INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States

PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5814477		19980929
APPLICATION INFO.:	US 1995-457048		19950601 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193, issued on 23 Mar 1993		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Eisenschenk, Frank C.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	3080		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 20 OF 25 USPATFULL

ACCESSION NUMBER: 1998:115724 USPATFULL  
TITLE: Treatment of cholera  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5811409		19980922
APPLICATION INFO.:	US 4608933		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Peselev, Elli		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1292		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 21 OF 25 USPATFULL

ACCESSION NUMBER: 1998:75157 USPATFULL  
TITLE: Therapeutic treatment of **clostridium**  
**difficile** associated diseases  
INVENTOR(S): Bostwick, Eileen F., Dayton, MN, United States  
Hoerr, Robert A., Long Lake, MN, United States  
PATENT ASSIGNEE(S): GalaGen Inc., Arden Hills, MN, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5773000		19980630
APPLICATION INFO.:	US 1996-730437		19961015 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-300918, filed on 6 Sep 1994, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Loring, Susan A.		
LEGAL REPRESENTATIVE:	Merchant, Gould, Smith, Edell, Welter & Schmidt, P.A.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	733		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 22 OF 25 USPATFULL

ACCESSION NUMBER: 1998:64730 USPATFULL  
TITLE: **Clostridium difficile** toxin disease  
therapy  
INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5762934		19980609
APPLICATION INFO.:	US 1995-456847		19950601 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193 And Ser. No. US 1992-842709, filed on 26 Feb 1992, now abandoned which is a continuation-in-part of Ser. No. US -429791

DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Eisenschenk, Frank C.  
 LEGAL REPRESENTATIVE: Medlen & Carroll, LLP  
 NUMBER OF CLAIMS: 16  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 16 Drawing Figure(s); 9 Drawing Page(s)  
 LINE COUNT: 3124  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 23 OF 25 USPATFULL  
 ACCESSION NUMBER: 1998:33612 USPATFULL  
 TITLE: Oral rehydration solution containing indigestible oligosaccharides  
 INVENTOR(S): Wolf, Bryan Warren, Newark, OH, United States  
 Garleb, Keith Allen, Powell, OH, United States  
 Campbell, Sheila Martinson, Worthington, OH, United States  
 Meulbroek, Jonathan Allan, Grayslake, IL, United States  
 Wheeler, Keith Brian, Dublin, OH, United States  
 Walton, Joseph Edward, Westerville, OH, United States  
 PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5733579		19980331
APPLICATION INFO.:	US 1995-417411		19950405 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Weddington, Kevin E.		
LEGAL REPRESENTATIVE:	Drayer, Lonnie, Nickey, Donald O., Brainard, Thomas D.		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	869		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 24 OF 25 USPATFULL  
 ACCESSION NUMBER: 97:76113 USPATFULL  
 TITLE: Treatment of cholera  
 INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
 Armstrong, Glen D., Edmonton, Canada  
 PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5661131		19970826
APPLICATION INFO.:	US 1995-442457		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jordan, Kimberln R.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 9 Drawing Figure(s); 9 Drawing Page(s)  
LINE COUNT: 1273  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 25 OF 25 USPATFULL

ACCESSION NUMBER: 97:12173 USPATFULL

TITLE: Avian antitoxins to clostridium difficle **toxin**

**A**

INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5601823		19970211
APPLICATION INFO.:	US 1993-161907		19931202 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Eisenschenk, Frank C.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:.	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	3128		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

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L20 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 2000:742256 CAPLUS  
DOCUMENT NUMBER: 133:295361  
TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines  
INVENTOR(S): Wilkins, Tracy D.; Lylerly, David M.; Moncrief, J.  
Scott; Pavliakova, Danka; Scheerson, Rachel; Robbins,  
John B.  
PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services  
SOURCE: PCT Int. Appl., 45 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 1999-128686	P 19990409
			US 2000-186201	P 20000301

L20 ANSWER 2 OF 2 USPATFULL  
ACCESSION NUMBER: 2001:67794 USPATFULL  
TITLE: Human respiratory syncytial virus peptides with  
antifusogenic and antiviral activities  
INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States  
PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		

LINE COUNT: 32166  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> d ibib 110 1-15

L10 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:742256 CAPLUS

DOCUMENT NUMBER: 133:295361

TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines

INVENTOR(S): Wilkins, Tracy D.; Lylely, David M.; Moncrief, J.  
Scott; Pavliakova, Danko; Scheerson, Rachel; Robbins,  
John B.

PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-128686 P 19990409  
US 2000-186201 P 20000301

L10 ANSWER 2 OF 15 USPATFULL

ACCESSION NUMBER: 2001:157785 USPATFULL

TITLE: Ionic polymers as toxin-binding agents

INVENTOR(S): Fitzpatrick, Richard, Marblehead, MA, United States  
Huval, Chad Cori, Somerville, MA, United States  
Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United  
States  
Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Cambridge, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290947	B1	20010918
APPLICATION INFO.:	US 2000-597343		20000619 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-412474, filed on 5 Oct 1999, now abandoned Continuation of Ser. No. US 1997-934495, filed on 19 Sep 1997, now patented, Pat. No. US 6007803		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	49		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2094		



L10 ANSWER 3 OF 15 USPATFULL

ACCESSION NUMBER: 2001:157784 USPATFULL  
TITLE: Anionic polymers as toxin binders and antibacterial agents  
INVENTOR(S): Kurtz, Caroline Isabelle Bacon, Sudbury, MA, United States  
Fitzpatrick, Richard, Marblehead, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290946	B1	20010918
APPLICATION INFO.:	US 2000-569276		20000511 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-541268, filed on 3 Apr 2000		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Fubara, Blessing	
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1935	

L10 ANSWER 4 OF 15 USPATFULL

ACCESSION NUMBER: 2001:139158 USPATFULL  
TITLE: Pneumococcal surface protein C (PspC), epitopic regions and strain selection thereof, and uses therefor  
INVENTOR(S): Briles, David E., Birmingham, AL, United States  
Hollingshead, Susan K., Birmingham, AL, United States  
Brooks-Walter, Alexis, Birmingham, AL, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001016200	A1	20010823
APPLICATION INFO.:	US 2000-748875	A1	20001226 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-298523, filed on 23 Apr 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-82728	19980423 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE, NEW YORK, NY, 10151	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	50 Drawing Page(s)	
LINE COUNT:	1911	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 15 USPATFULL

ACCESSION NUMBER: 2001:125541 USPATFULL  
TITLE: Anionic polymers as toxin binders  
INVENTOR(S): Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United States  
Fitzpatrick, Richard, Marblehead, MA, United States

PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6270755	B1	20010807
APPLICATION INFO.:	US 2000-541268		20000403 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Fubara, Blessing	
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1310	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 15 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL

TITLE: Human respiratory syncytial virus peptides with antifusogenic and antiviral activities

INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States

PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		
LINE COUNT:	32166		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 15 USPATFULL

ACCESSION NUMBER: 2000:109787 USPATFULL

TITLE: Treatment of C. difficile **toxin B** associated conditions

INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada

PATENT ASSIGNEE(S): SYNSORB Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6107282		20000822

APPLICATION INFO.: US 1999-419790 19991018 (9)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-85032, filed on 28 May  
1998, now patented, Pat. No. US 6013635  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fonda, Kathleen K.  
LEGAL REPRESENTATIVE: Burns, Doane, Swecker & Mathis, LLP  
NUMBER OF CLAIMS: 8  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 1256  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 15 USPATFULL

ACCESSION NUMBER: 2000:4797 USPATFULL  
TITLE: Treatment of C. difficile **toxin B**  
associated conditions  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6013635		20000111
APPLICATION INFO.:	US 1998-85032		19980528 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fonda, Kathleen K.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1139		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 15 USPATFULL

ACCESSION NUMBER: 1999:170197 USPATFULL  
TITLE: Ionic polymers as toxin binding agents  
INVENTOR(S): Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Boston, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6007803		19991228
APPLICATION INFO.:	US 1997-934495		19970919 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Clardy, S. Mark		
ASSISTANT EXAMINER:	Shelborne, Kathryn E.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1832		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 15 USPATFULL

ACCESSION NUMBER: 1999:96348 USPATFULL  
TITLE: Treatment of cholera  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5939397		19990817
	WO 9639191		19961212
APPLICATION INFO.:	US 1998-973630		19980325 (8)
	WO 1996-CA251		19960418
			19980325 PCT 371 date
			19980325 PCT 102(e) date
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jordan, Kimberly		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1237		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L10 ANSWER 11 OF 15 USPATFULL  
ACCESSION NUMBER: 1998:122384 USPATFULL  
TITLE: Treatment of cholera  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5817633		19981006
APPLICATION INFO.:	US 1996-678059		19960709 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-460893, filed on 5 Jun 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Peselev, Elli		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1160		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L10 ANSWER 12 OF 15 USPATFULL  
ACCESSION NUMBER: 1998:115724 USPATFULL  
TITLE: Treatment of cholera  
INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
Armstrong, Glen D., Edmonton, Canada  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5811409		19980922
APPLICATION INFO.:	US 4608933		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Peselev, Elli		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1292		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L10 ANSWER 13 OF 15 USPATFULL  
 ACCESSION NUMBER: 97:76113 USPATFULL  
 TITLE: Treatment of cholera  
 INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
 Armstrong, Glen D., Edmonton, Canada  
 PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.  
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5661131		19970826
APPLICATION INFO.:	US 1995-442457		19950605 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jordan, Kimberln R.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1273		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 15 USPATFULL  
 ACCESSION NUMBER: 97:47510 USPATFULL  
 TITLE: Method of binding and removing **toxin**  
**A**  
 INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
 Armstrong, Glen D., Edmonton, Canada  
 PATENT ASSIGNEE(S): Synsorb, Biotech Inc., Alberta, Canada (non-U.S.  
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5635606		19970603
APPLICATION INFO.:	US 1995-450572		19950525 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-195009, filed on 14 Feb 1994, now patented, Pat. No. US 5484773		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Peselev, Elli		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1059		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 15 USPATFULL  
 ACCESSION NUMBER: 96:5776 USPATFULL  
 TITLE: Treatment of antibiotic associated diarrhea  
 INVENTOR(S): Heerze, Louis D., Edmonton, Canada  
 Armstrong, Glen D., Edmonton, Canada  
 PATENT ASSIGNEE(S): Alberta Research Council, Edmonton, Canada (non-U.S.  
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5484773		19960116
APPLICATION INFO.:	US 1994-195009		19940214 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Griffin, Ronald W.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, Swiss, Gerald F.,		

Dillahunty, Mary Ann  
NUMBER OF CLAIMS: 14  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)  
LINE COUNT: 1107  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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21 ANSWER 1 OF 1 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL  
TITLE: Human respiratory syncytial virus peptides with  
antifusogenic and antiviral activities  
INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States  
PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		
LINE COUNT:	32166		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

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> d 113 ibib 1-2

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:742256 CAPLUS

DOCUMENT NUMBER: 133:295361

TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines

INVENTOR(S): Wilkins, Tracy D.; Lylerly, David M.; Moncrief, J.  
Scott; Pavliakova, Danka; Scheerson, Rachel; Robbins,  
John B.

PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-128686 P 19990409  
US 2000-186201 P 20000301

L13 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL

TITLE: Human respiratory syncytial virus peptides with  
antifusogenic and antiviral activities

INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States

PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		



LINE COUNT: 32166  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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> d 111 ibib 1-2

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:742256 CAPLUS

DOCUMENT NUMBER: 133:295361

TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines

INVENTOR(S): Wilkins, Tracy D.; Lylerly, David M.; Moncrief, J.  
Scott; Pavliakova, Danka; Scheerson, Rachel; Robbins,  
John B.

PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 1999-128686	P 19990409
			US 2000-186201	P 20000301

L11 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL

TITLE: Human respiratory syncytial virus peptides with  
antifusogenic and antiviral activities

INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States

PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		

LINE COUNT: 32166  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> d 114 ibib 1-13

L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:742256 CAPLUS

DOCUMENT NUMBER: 133:295361

TITLE: **Clostridium difficile** recombinant  
toxin A repeating units as a carrier  
protein for conjugate vaccines

INVENTOR(S): Wilkins, Tracy D.; Lylerly, David M.; Moncrief, J.  
Scott; Pavliakova, Danka; Scheerson, Rachel; Robbins,  
John B.

PATENT ASSIGNEE(S): Techlab, Inc., USA; United States Dept. of Health and  
Human Services

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061761	A2	20001019	WO 2000-US9523	20000410
WO 2000061761	A3	20010222		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,  
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-128686 P 19990409  
US 2000-186201 P 20000301

L14 ANSWER 2 OF 13 USPATFULL

ACCESSION NUMBER: 2001:157798 USPATFULL

TITLE: Vaccine and antitoxin for the treatment of C. difficile  
disease

INVENTOR(S): Kink, John A., Madison, WI, United States  
Thalley, Bruce S., Madison, WI, United States  
Stafford, Douglas C., Madison, WI, United States

PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290960	B1	20010918
APPLICATION INFO.:	US 1997-915136		19970820 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-480604, filed on 7 Jun 1995, now patented, Pat. No. US 5736139 Continuation-in-part of Ser. No. US 1995-422711, filed on 14 Apr 1995, now abandoned Continuation-in-part of Ser. No. US 1995-405496, filed on 16 Mar 1995, now patented, Pat. No. US 5919665 Continuation-in-part of Ser. No. US 1994-329154, filed on 24 Oct 1994, now abandoned Continuation-in-part of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 Continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 Continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Navarro, Albert  
LEGAL REPRESENTATIVE: Medlen & Carroll, LLP  
NUMBER OF CLAIMS: 14  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 55 Drawing Figure(s); 54 Drawing Page(s)  
LINE COUNT: 11041

L14 ANSWER 3 OF 13 USPATFULL

ACCESSION NUMBER: 2001:157785 USPATFULL  
TITLE: Ionic polymers as toxin-binding agents  
INVENTOR(S): Fitzpatrick, Richard, Marblehead, MA, United States  
Huval, Chad Cori, Somerville, MA, United States  
Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United States  
Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Cambridge, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290947	B1	20010918
APPLICATION INFO.:	US 2000-597343		20000619 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-412474, filed on 5 Oct 1999, now abandoned Continuation of Ser. No. US 1997-934495, filed on 19 Sep 1997, now patented, Pat. No. US 6007803		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	49		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2094		

L14 ANSWER 4 OF 13 USPATFULL

ACCESSION NUMBER: 2001:157784 USPATFULL  
TITLE: Anionic polymers as toxin binders and antibacterial agents  
INVENTOR(S): Kurtz, Caroline Isabelle Bacon, Sudbury, MA, United States  
Fitzpatrick, Richard, Marblehead, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290946	B1	20010918
APPLICATION INFO.:	US 2000-569276		20000511 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-541268, filed on 3 Apr 2000		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Fubara, Blessing	
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)	

LINE COUNT: 1935

L14 ANSWER 5 OF 13 USPATFULL

ACCESSION NUMBER: 2001:125541 USPATFULL  
TITLE: Anionic polymers as toxin binders  
INVENTOR(S): Bacon Kurtz, Caroline Isabelle, Sudbury, MA, United States  
Fitzpatrick, Richard, Marblehead, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6270755	B1	20010807
APPLICATION INFO.:	US 2000-541268		20000403 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-133975	19990513 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Fubara, Blessing	
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1310	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 6 OF 13 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL  
TITLE: Human respiratory syncytial virus peptides with antifusogenic and antiviral activities  
INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States  
Lambert, Dennis Michael, Cary, NC, United States  
Petteway, Stephen Robert, Cary, NC, United States  
PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		
LINE COUNT:	32166		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 7 OF 13 USPATFULL

ACCESSION NUMBER: 2000:80408 USPATFULL  
TITLE: **Compositions** for the prevention and treatment of verotoxin-induced disease

INVENTOR(S): Williams, James A., Lincoln, NE, United States  
Byrne, Lisa Marie, Stoughton, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Wisconsin, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6080400		20000627
APPLICATION INFO.:	US 1997-816977		19970313 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-410058, filed on 24 Mar 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Devi, S.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	5468		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 13 USPATFULL

ACCESSION NUMBER: 1999:170197 USPATFULL  
TITLE: Ionic polymers as toxin binding agents  
INVENTOR(S): Mandeville, III, W. Harry, Lynnfield, MA, United States  
Neenan, Thomas X., Boston, MA, United States  
PATENT ASSIGNEE(S): GelTex Pharmaceuticals, Inc., Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6007803		19991228
APPLICATION INFO.:	US 1997-934495		19970919 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Clardy, S. Mark		
ASSISTANT EXAMINER:	Shelborne, Kathryne E.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1832		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 9 OF 13 USPATFULL

ACCESSION NUMBER: 1999:75522 USPATFULL  
TITLE: Vaccine for clostridium botulinum neurotoxin  
INVENTOR(S): Williams, James A., Madison, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5919665		19990706
APPLICATION INFO.:	US 1995-405496		19950316 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-329154, filed on 25 Oct 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193, issued on 23 Mar 1993		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: Granted  
PRIMARY EXAMINER: Eisenschenk, Frank C.  
ASSISTANT EXAMINER: Rabin, Evelyn  
LEGAL REPRESENTATIVE: Medlen & Carroll, LLP  
NUMBER OF CLAIMS: 10  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 31 Drawing Figure(s); 29 Drawing Page(s)  
LINE COUNT: 9164  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 10 OF 13 USPATFULL

ACCESSION NUMBER: 1998:118999 USPATFULL  
TITLE: Recombinant clostridial toxin protein  
INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5814477		19980929
APPLICATION INFO.:	US 1995-457048		19950601 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193, issued on 23 Mar 1993		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Eisenschenk, Frank C.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	3080		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 11 OF 13 USPATFULL

ACCESSION NUMBER: 1998:64730 USPATFULL  
TITLE: **Clostridium difficile** toxin disease therapy  
INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5762934		19980609
APPLICATION INFO.:	US 1995-456847		19950601 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193 And Ser. No. US 1992-842709, filed on 26 Feb 1992, now abandoned which is a continuation-in-part of Ser. No. US -429791		
DOCUMENT TYPE:	Utility		



FILE SEGMENT: Granted  
PRIMARY EXAMINER: Eisenschenk, Frank C.  
LEGAL REPRESENTATIVE: Medlen & Carroll, LLP  
NUMBER OF CLAIMS: 16  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 16 Drawing Figure(s); 9 Drawing Page(s)  
LINE COUNT: 3124  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 12 OF 13 USPATFULL

ACCESSION NUMBER: 1998:36359 USPATFULL  
TITLE: Treatment of **Clostridium difficile**  
induced disease  
INVENTOR(S): Kink, John A., Madison, WI, United States  
Thalley, Bruce S., Madison, WI, United States  
Stafford, Douglas C., Madison, WI, United States  
Firca, Joseph R., Vernon Hills, IL, United States  
Padhye, Nisha V., Madison, WI, United States  
PATENT ASSIGNEE(S): Ochidian Pharmaceuticals, Inc., Madison, WI, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5736139		19980407
APPLICATION INFO.:	US 1995-480604		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-422711, filed on 14 Apr 1995 which is a continuation-in-part of Ser. No. US 1995-405496, filed on 16 Mar 1995 which is a continuation-in-part of Ser. No. US 1994-329154, filed on 24 Oct 1994 which is a continuation-in-part of Ser. No. US 1993-161907, filed on 2 Dec 1993, now patented, Pat. No. US 5601823 which is a continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented, Pat. No. US 5196193, issued on 23 Mar 1993		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Eisenschenk, Frank C.		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	55 Drawing Figure(s); 53 Drawing Page(s)		
LINE COUNT:	11770		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L14 ANSWER 13 OF 13 USPATFULL

ACCESSION NUMBER: 97:12173 USPATFULL  
TITLE: Avian antitoxins to clostridium difficle **toxin**  
**A**  
INVENTOR(S): Williams, James A., Madison, WI, United States  
Kink, John A., Madison, WI, United States  
Clemens, Christopher M., Madison, WI, United States  
Carroll, Sean B., Cottage Grove, WI, United States  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Madison, WI, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5601823		19970211
APPLICATION INFO.:	US 1993-161907		19931202 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-985321, filed on 4 Dec 1992 which is a continuation-in-part of Ser. No. US 1989-429791, filed on 31 Oct 1989, now patented,		

Pat. No. US 5196193  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Eisenschenk, Frank C.  
LEGAL REPRESENTATIVE: Medlen & Carroll, LLP  
NUMBER OF CLAIMS: 15  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 14 Drawing Page(s)  
LINE COUNT: 3128  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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